

JOSEPH E. DUNNE III  
COLBY M. MAY\*

\*ALSO ADMITTED IN VIRGINIA

MAY & DUNNE  
CHARTERED  
ATTORNEYS AT LAW  
1000 THOMAS JEFFERSON STREET, N.W.  
SUITE 520  
WASHINGTON, D.C. 20007  
(202) 298-6345

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AUG 17 1992

RICHARD G. GAY  
OF COUNSEL

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August 17, 1992

FEDERAL COMMUNICATIONS COMMISSION  
OFFICE OF THE SECRETARY

HAND DELIVER

Donna R. Searcy  
Secretary  
Federal Communications Commission  
Washington, D.C. 20554

ATTN: The Honorable Edward J. Kuhlmann  
Administrative Law Judge

RE: Central Florida Educational Foundation, Inc., et al., MM  
Docket No. 92-33, application of Central Florida  
Educational Foundation, Inc. for a New Noncommercial FM  
Station, Union Park, Florida (BPED-881207MA) Florida  
(BPED-881207MA)

Dear Ms. Searcy:


Transmitted herewith on behalf of Central Florida Educational  
Foundation, Inc. (Central) is an original and six copies of a  
"Petition For Leave To Amend" and attached "amendment" filed in  
connection with the above-referenced docketed application.

Should any questions arise concerning this matter, kindly contact  
the undersigned directly.

Respectfully submitted,

MAY & DUNNE, CHARTERED

By:

  
Joseph E. Dunne III  
Attorney for Central Florida  
Educational Foundation, Inc.

JED:gmc:A41  
enclosures

xc: All per attached certificate of service  
James S. Hoge

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AUG 17 1992

FEDERAL COMMUNICATIONS COMMISSION  
OFFICE OF THE SECRETARY

BEFORE THE

**Federal Communications Commission**

WASHINGTON, D.C. 20554

In re Applications of	)	MM Docket No. 92-33
	)	
CENTRAL FLORIDA EDUCATIONAL	)	File No. BPED-881207MA
FOUNDATION, INC.	)	
Channel 203C3	)	
Union Park, Florida	)	
	)	
BIBLE BROADCASTING NETWORK, INC.	)	File No. BPED-890412MJ
Channel 202C2	)	
Conway, Florida	)	
	)	
SOUTHWEST FLORIDA COMMUNITY	)	File No. BPED-891127MC
RADIO INC.	)	
Channel 202C2	)	
Conway, Florida	)	
	)	
HISPANIC BROADCAST SYSTEM, INC.	)	File No. BPED-891128ME
Channel 202C3	)	
Lake Mary, Florida	)	
	)	
For Construction Permit for a	)	
New Noncommercial Educational FM	)	
Station	)	
TO: The Honorable Edward J. Kuhlmann		
Administrative Law Judge		

**PETITION FOR LEAVE TO AMEND**

Central Florida Educational Foundation, Inc. (Central), by its undersigned attorney and pursuant to section 73.3522(b) of the Commission's Rules, 47 C.F.R. § 73.3522(b) (1992), hereby respectfully requests that the amendment attached hereto be accepted. As grounds for its Petition, Central shows and states as follows.

1. The amendment proffered by Central is an engineering amendment that seeks only to increase Central's effective radiated power from the 950 watts (.95 KW) now specified, to 1.9 KW.

Central's proffered amendment essentially duplicates in power, site, antenna diplexing, etc. the engineering proposals of Bible Broadcasting Network, Inc. (BBN) and Southwest Florida Community Radio, Inc. (Southwest) which the Commission already accepted in the Hearing Designation Order, and which the Chief of the Audio Services Division has already determined (See letters of W. Jan Gay, Assistant Chief, Audio Services Division, to the Presiding Officer, dated May 8, 1992, concerning the BBN and Southwest application) is not subject to "environmental processing."

2. The circumstances which prompted this amendment are recounted in the letters of Mr. Robert Diehl and Mr. Jay Martin attached as Exhibits E-1 and E-2, respectively, to the amendment attached as Exhibit 1, and the Verified Statement of Central's president, James S. Hoge, attached as Exhibit 2. Jay Martin, a representative of Dielectric Communications, the company which designed the WCPX antenna as well as the filterplexer and diplexer which will be used to diplex WCPX and Central's signal, visited the WCPX transmitter site in early March. During that visit in early March Mr. Martin inspected the WCPX antenna, reviewed Central's engineering proposal, and discussed the joint channel 6/Central technical proposal with Mr. Hoge, Central's president. Following that meeting, in early July, Mr. Robert Diehl, WCPX chief engineer, mentioned to Mr. Hoge that the power specified in Central's application was not the most efficient power at which to run the antenna. In fact, Mr. Martin characterized Central's proposed power as "marginal," even though it would work. Mr. Martin told

Mr. Diehl, and repeats here (see Exhibit E-1 to the amendment), that a diplexed proposal would work much better if the FM station operated at a higher power. At lower powers, such as that now specified by Central, there is less "isolation" between the two signals and a greater danger that the TV signal would override Central's FM signal. Clearly, due to the nature of the diplexer's design, the higher the ERP for Central the more efficient the joint WCPX/Central antenna will function. Upon learning of the superior technical proposal offered by a higher ERP, and the decreased danger of interference, WCPX has requested Central to seek to increase its specified power, if possible (See Exhibit E-2).

3. Central notes here that its proposal will not require any environmental processing, or, in fact, any other processing, since its requested facilities duplicate those already proposed by BBN and Southwest. The power proposed here is the maximum permitted by §73.525 for the protection of WCPX, which is presumptively why both BBN and Southwest specified that power in their proposals. Central's proffered amendment constitutes a minor change (see Exhibit D), although the "major change" rule does not apply to post-designation amendments. See, Revision of Sections 73.3571, 73.3572 and 73.3573 of the Commission's Rules, 5 FCC Rcd. 2993 (1990), and is not mutually exclusive with any application not a party to this proceeding. Central's proposed amendment will not preclude any new FM service which is not already precluded by the applications of BBN and Southwest. Central may not obtain, and does not seek, any comparative benefit by virtue of this amendment.

4. The amendment is submitted at this time to increase the technical efficiency of Central's proposal at the request of the owner of the antenna through which Central will be broadcasting its signal should its application be granted. Waiting until the prospective grant of Central's application to file this amendment might prevent the amendment from ever being technically feasible because of the preclusive impact of other noncommercial FM applications filled during the interim. Channel 6 and Central also share a mutual interest in decreasing the possibility of interference to channel 6 viewers, the problem to which Central's/WCPX's diplexing is the ultimate solution.

5. The criteria for good cause for post-designation amendments under section 73.3522 was set forth in Edwin O'Connor Broadcasting, Inc., 22 F.C.C.2d 140, 143, 18 R.R.2d 820, 823 (Rev. Bd. 1970), and include: (1) the moving party must show that it has acted with due diligence; (2) that the proposed amendment is not required by its voluntary act; (3) that no modification or addition of issues or parties will be necessitated; (4) that the proposed amendment will not disrupt the orderly conduct of the hearing or necessitate additional hearing; (5) that the other parties will not be unfairly prejudiced; and, (6) that the applicant will not gain a comparative advantage. Horizon Broadcasting, Inc., 101 F.C.C.2d 659, 59 R.R.2d 1349, 1350 (Rev. Bd. 1986). A higher standard is imposed for engineering amendments, that the amendment be "unforeseeable." California Broadcasting Corp., 90 F.C.C.2d 800, 808-809, 51 R.R.2d 1539 (1982).

6. Central has clearly acted with due diligence in this matter. As noted by Mr. Hoge, Central was not made aware of Mr. Martin's recommendation until early July, approximately a month prior to the filing of Central's proffered amendment. A delay of a month in filing an amendment has been found by the Commission to constitute "due diligence." Kevin Potter, 6 FCC Rcd 7278, 70 R.R.2d 496 (Rev. Bd. 1991). Compare, National Communications Industries, 6 FCC Rcd 1978, 69 R.R.2d 51 (Rev. Bd. 1991) ( 8 month delay in filing post-designation amendment is not due diligence). The proffered amendment is not the voluntary act of Central, but requested by the owner of Central's antenna site as well as its antenna to improve the technical feasibility of the diplexing proposal and reduce the danger of interference to Central's signal. No additional parties or issues will be added to this proceeding, since Central's engineering proposal is exactly the same as that of BBN and Southwest which has already been processed by the Commission.

7. Likewise, Central's amendment neither seeks or may obtain any comparative benefit, does not disrupt the orderly course of the proceeding, which now includes only the Reply Findings of Fact and Conclusions of Law, and, finally, does not prejudice any other party to this proceeding. Central will not comparatively benefit from the proffered amendment, and the facilities it proposes are exactly those specified by two other applicants in this proceeding.

8. Finally, the need for this amendment is not reasonably foreseeable. Both WCPX and Central have had to rely on the

technical expertise of engineers and consultants in the design of the diplexer which will allow them both to use the same antenna. Neither can be faulted for not foreseeing the necessity for proposing more power when Martin apparently required a site visit and inspection of WCPX' filterplexer before the recommendation was made.

WHEREFORE, the foregoing premises considered, Central Florida Educational Foundation, Inc. respectfully requests that its proffered amendment be accepted.

CENTRAL FLORIDA EDUCATIONAL  
FOUNDATION, INC.

By:

  
Joseph E. Dunne III  
Its Attorney

MAY & DUNNE, CHARTERED  
Suite 520  
1000 Thomas Jefferson Street, N.W.  
Washington, D.C. 20007  
(202) 298-6345

**CENTRAL FLORIDA EDUCATIONAL FOUNDATION, INC.**

**AMENDMENT TO APPLICATION**



JOSEPH E. DUNNE III  
COLBY M. MAY\*

\*ALSO ADMITTED IN VIRGINIA

MAY & DUNNE  
CHARTERED  
ATTORNEYS AT LAW  
1000 THOMAS JEFFERSON STREET, N.W.  
SUITE 520  
WASHINGTON, D.C. 20007  
(202) 298-6345

RICHARD G. GAY  
OF COUNSEL

TELECOPIER NO.  
(202) 298-6375

August 17, 1992

HAND DELIVER

Donna R. Searcy  
Secretary  
Federal Communications Commission  
Washington, D.C. 20554

ATTN: FM Branch, Audio Services Division

RE: Application of Central Florida Educational Foundation,  
Inc. for a New Noncommercial FM Station, Union Park,  
Florida (BPED-881207MA)

Dear Ms. Searcy:

Transmitted herewith in triplicate on behalf of Central Florida Educational Foundation, Inc. (Central) is an amendment to its above-referenced pending application.

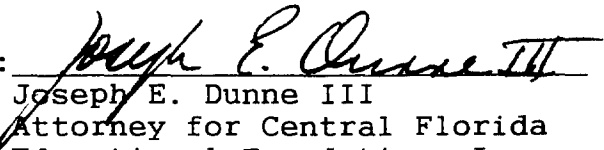
Since this application has been designated for hearing in MM Docket No. 92-33, Central is concurrently filing a "petition for leave to amend."

Should any questions arise concerning this matter, kindly contact the undersigned directly.

Respectfully submitted,

MAY & DUNNE, CHARTERED

By:

  
Joseph E. Dunne III  
Attorney for Central Florida  
Educational Foundation, Inc.

JED:gmc:A41  
enclosures  
xc: CFEF Public File  
James S. Hoge

# CFEFI

---

**CENTRAL FLORIDA EDUCATIONAL FOUNDATION, INC.**

400 West Lake Brantley Road

Altamonte Springs, Florida 32714-2715

Phone: (407) 682-9494 • FAX: (407) 682-7005

August 13, 1992

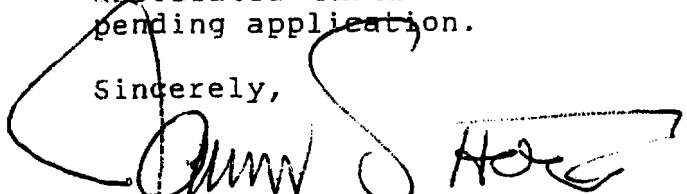
Ms. Donna R. Searcy  
Secretary, Room 222  
Federal Communications Commission  
1919 M Street, N.W.  
Washington, DC 20554

RE: (BPED-881207MA), Application of Central Florida  
Educational Foundation, Inc., for a Noncommercial  
FM Station on Channel 202, Union Park, Florida

Dear Ms. Searcy:

Please accept the attached amended section V-B and its  
associated exhibits as an amendment to the above-referenced  
pending application.

Sincerely,



James S. Hoge, President  
Central Florida Education Foundation, Inc.

JH/cs

**ENGINEERING REPORT**

**Amendment to Application for Construction Permit  
Central Florida Educational Foundation, Incorporated**

**for**

**Channel 202, 448 Meters HAAT**

**Present: .95 Kw C3**

**Propose: 1.9 Kw C2**

**Union Park, Florida**

**BPED-881207MA MM Docket #92-33**

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**AUGUST 1992**

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CENTRAL FLORIDA  
EDUCATIONAL FOUNDATION, INC.

AMENDED CH 202C2 TO 1.9 Kw @ 448 M HAAT  
UNION PARK, FL

AUGUST 1992

FCC Form 340, Section V-B

Exhibit A.....Engineering Statement

Exhibit B.....B-1 Antenna Polar Plot  
B-2 Amended Directional  
Antenna Tabulation of  
Pattern and Contours

Exhibit C.....Map showing amended service  
contours and population  
and area served

Exhibit D.....Minor Change Showing

Exhibit E.....E-1 Letter from Dielectric  
E-2 Letter from WCPX-TV

Exhibit F.....F-1 Dataworld Allocation Study  
F-2 Clipping Study Map, Samsula  
F-3 Clipping Study Data, Samsula  
F-4 Clipping Study Map,  
Palm Bay  
F-5 Clipping Study Data,  
Palm Bay

\* \* \* \* \*

# Section V-B - FM BROADCAST ENGINEERING DATA

FOR COMMISSION USE ONLY

File No. \_\_\_\_\_  
 ASB Referral Date \_\_\_\_\_  
 Referred by \_\_\_\_\_

Name of Applicant

Central Florida Educational Foundation, Inc

Call letters (if issued)

Is this application being filed in response to a window? ☐ Yes ☒ No

If Yes, specify closing date: \_\_\_\_\_

Purpose of Application: (check appropriate boxes)

- |   |   |
|---|---|
| <input type="checkbox"/> Construct a new (main) facility  | <input type="checkbox"/> Construct a new auxiliary facility                         |
| <input checked="" type="checkbox"/> Modify existing <del>construction permit</del> <b>Pending Application</b> for main facility | <input type="checkbox"/> Modify existing construction permit for auxiliary facility |
| <input type="checkbox"/> Modify licensed main facility  | <input type="checkbox"/> Modify licensed auxiliary facility                         |

If purpose is to modify, indicate below the nature of change(s) and specify the file number(s) of the authorizations affected.

- |   |  |
|---|--|
| <input type="checkbox"/> Antenna supporting-structure height  | <input checked="" type="checkbox"/> Effective radiated power |
| <input type="checkbox"/> Antenna height above average terrain | <input type="checkbox"/> Frequency                           |
| <input type="checkbox"/> Antenna location                     | <input checked="" type="checkbox"/> Class                    |
| <input type="checkbox"/> Main Studio location                 | <input type="checkbox"/> Other (Summarize briefly)           |

File Number(s) BPED-881207MA MM Docket #92-33

## 1. Allocation:

Channel No.	Principal community to be served:			Class (check only one box below)
202	City	County	State	<input type="checkbox"/> A <input type="checkbox"/> B1 <input type="checkbox"/> B <input type="checkbox"/> C3
	Union Park	Orange	FL	<input checked="" type="checkbox"/> C2 <input type="checkbox"/> C1 <input type="checkbox"/> C <input type="checkbox"/> D

## 2. Exact location of antenna.

- (a) Specify address, city, county and state. If no address, specify distance and bearing relative to the nearest town or landmark.  
 WCPX-TV Transmitter Site. 0.45 miles north of State Road 420  
 at Lake Picket. Bithlo, Florida
- (b) Geographical coordinates (to nearest second). If mounted on element of an AM array, specify coordinates of center of array.  
 Otherwise, specify tower location. Specify South Latitude or East Longitude where applicable; otherwise, North Latitude or West Longitude will be presumed.

Latitude	28° 36' 08"	Longitude	81° 05' 37"
----------	-------------	-----------	-------------

3. Is the supporting structure the same as that of another station(s) or proposed in another pending application(s)? ☒ Yes ☐ No

If Yes, give call letter(s) or file number(s) or both. WCPX-TV, WFTV(TV), WMFE-TV, WWKA(FM),  
WDIZ(FM), WMFE-FM and MX'ed Applicants BPED-890412MJ, BPED-891127MC  
 If proposal involves a change in height of an existing structure, specify existing height above ground level including antenna, all other appurtenances, and lighting, if any.

N / A

SECTION V-B - FM BROADCAST ENGINEERING DATA (Page 2)

4. Does the application propose to correct previous site coordinates?  
If Yes, list old coordinates.

☐ Yes ☒ No

Latitude	° N / A ' "	Longitude	° ' "
----------	-------------	-----------	-------

5. Has the FAA been notified of the proposed construction?

☒ Yes ☐ No

If Yes, give date and office where notice was filed and attach as an Exhibit a copy of FAA determination, if available.

Exhibit No.  
On File

Date 24 July 1992 Office where filed Southern Regional Office

6. List all landing areas within 8 km of antenna site. Specify distance and bearing from structure to nearest point of the nearest runway.

Landing Area	Distance (km)	Bearing (degrees True)
(a) <u>*None*</u>		
(b)		

7. (a) Elevation: *(to the nearest meter)*

(1) of site above mean sea level; 20 meters

(2) of the top of supporting structure above ground (including antenna, all other appurtenances, and lighting, if any); and 490 meters

(3) of the top of supporting structure above mean sea level [(aX1) + (aX2)] 510 meters

- (b) Height of radiation center: *(to the nearest meter)* H = Horizontal; V = Vertical

(1) above ground 438 meters (H)

--- meters (V)

(2) above mean sea level [(aX1) + (bX1)] 458 meters (H)

--- meters (V)

(3) above average terrain 448 meters (H)

--- meters (V)

8. Attach as an Exhibit sketch(es) of the supporting structure, labelling all elevations required in Question 7 above, except item 7(bX3). If mounted on an AM directional-array element, specify heights and orientations of all array towers, as well as location of FM radiator.

No Change Exhibit No.  
On File

9. Effective Radiated Power:

(a) ERP in the horizontal plane 1.9 kw (H\*) --- kw (V\*)

- (b) Is beam tilt proposed?

☐ Yes ☒ No

If Yes, specify maximum ERP in the plane of the tilted beam, and attach as an Exhibit a vertical elevational plot of radiated field.

Exhibit No.  
N/A

--- kw (H\*) --- kw (V\*)

\*Polarization

SECTION V-B - FM BROADCAST ENGINEERING DATA (Page 3)

10. Is a directional antenna proposed?

☒ Yes ☐ No

If Yes, attach as an Exhibit a statement with all data specified in 47 C.F.R. Section 73.316, including plot(s) and tabulations of horizontally and vertically polarized radiated components in terms of relative field.

Exhibit No.  
B

11. Will the main studio be located within the 70 dBu or 3.16 mV/m contour? **No change in the pattern on file. New ERP calculations in EX. B**

☒ Yes ☐ No

If No, attach as an Exhibit justification pursuant to 47 C.F.R. Section 73.1125.

Exhibit No.  
N/A

12. Are there: (a) within 60 meters of the proposed antenna, any proposed or authorized FM or TV transmitters, or any nonbroadcast *except citizens band or amateur* radio stations; or (b) within the blanketing contour, any established commercial or government receiving stations, cable head-end facilities, or populated areas; or (c) within ten (10) kilometers of the proposed antenna, any proposed or authorized FM or TV transmitters which may produce receiver-induced intermodulation interference?

☒ Yes ☐ No

If Yes, attach as an Exhibit a description of any expected, undesired effects of operations and remedial steps to be pursued if necessary, and a statement accepting full responsibility for the elimination of any objectionable interference (including that caused by receiver-induced or other types of modulation) to facilities in existence or authorized or to radio receivers in use prior to grant of this application. (See 47 C.F.R. Sections 73.315(b), 73.316(d) and 73.318.)

No Change  
Exhibit No.  
On File

13. Attach as an Exhibit a 7.5 minute series U.S. Geological Survey topographic quadrangle map that shows clearly, legibly, and accurately, the location of the proposed transmitting antenna. This map must comply with the requirements set forth in Instruction D for Section V. Further, the map must clearly and legibly display the original printed contour lines and data as well as latitude and longitude markings, and must bear a scale of distance in kilometers.

No Change  
Exhibit No.  
On File

14. Attach as an Exhibit *(name the source)* a map which shows clearly, legibly, and accurately, and with the original printed latitude and longitude markings and a scale of distance in kilometers:

Exhibit No.  
C

(a) the proposed transmitter location, and the radials along with profile graphs have been prepared;

(b) the 1 mV/m predicted contour and, for noncommercial educational applicants applying on a commercial channel, the 3.16 mV/m contour; and

(c) the legal boundaries of the principal community to be served.

15. Specify area in square kilometers (1 sq. mi. = 2.59 sq. km.) and population (latest census) within the predicted 1 mV/m contour.

Area 5213.7 sq. km.

Population 1,063,361  
( 1990 )

16. Attach as an Exhibit a map *(Sectional Aeronautical charts where obtainable)* showing the present and proposed 1 mV/m (60 dbu) contours.

Exhibit No.  
D

Enter the following from Exhibit above:

Gain Area 1,349.7 sq. mi. km  
Loss Area -0- sq. mi. km

Percent change (gain area plus loss area as percentage of present area) 34.9 %.

If 50% or more this constitutes a major change. Indicate in question 2(c), Section I, accordingly.

17. For an application involving an auxiliary facility only, attach as an Exhibit a map (*Sectional Aeronautical Chart or equivalent*) that shows clearly, legibly, and accurately, and with latitude and longitude markings and a scale of distance in kilometers:

Exhibit No.  
N/A

(a) the proposed auxiliary 1 mV/m contour; and

(b) the 1 mV/m contour of the licensed main facility for which the applied-for facility will be auxiliary. Also specify the file number of the license. See 47 C.F.R. Section 73.1675. (File No.: \_\_\_\_\_)

18. Terrain and coverage data (*to be calculated in accordance with 47 C.F.R. Section 73.313*).

Source of terrain data: (*check only one box below*)

☒ Linearly interpolated 30-second database

☐ 7.5 minute topographic map

(Source: Dataworld)

☐ Other (*briefly summarize*)

Radial bearing (degrees True)	Height of radiation center above average elevation of radial from 3 to 16 km (meters)	Predicted Distances to the 1 mV/m contour (kilometers)
0	450.8	40.5
45	455.4	42.5
90	455.3	41.0
135	446.3	40.1
180	443.1	37.6
225	442.1	39.8
270	444.5	43.2
315	448.6	41.0

#### Allocation Studies

(*See Subpart C of 47 C.F.R. Part 73*)

19. Is the proposed antenna location within 320 kilometers (199 miles) of the common border between the United States and Mexico?

☐ Yes ☒ No

If Yes, attach as an Exhibit a showing of compliance with all provisions of the Agreement between the United States of America and the United Mexican States concerning Frequency Modulation Broadcasting in the 88 to 108 MHz band.

Exhibit No.  
N/A



20. Is the proposed antenna location within 320 kilometers of the common border between the United States and Canada?

☐ Yes ☒ No

If Yes, attach as an Exhibit a showing of compliance with all provisions of the Working Agreement for Allocation of FM Broadcasting Stations on Channels 201-300 under The Canada-United States FM Agreement of 1947.

Exhibit No.  
N/A

21. If the proposed operation is for a channel in the range from channel 201 through 220 (88.1 through 91.9 MHz), or if this proposed operation is for a class D station in the range from Channel 221 through 300 (92.1 through 107.9 MHz), attach as an Exhibit a complete allocation study to establish the lack of prohibited overlap of contours with other U.S. stations. The allocation study should include the following:

Exhibit No.  
F

- (a) The normally protected interference-free and the interfering contours for the proposed operation along all azimuths.
- (b) Complete normally protected interference-free contours of all other proposals and existing stations to which objectionable interference would be caused.
- (c) Interfering contours over pertinent arcs of all other proposals and existing stations from which objectionable interference would be received.
- (d) Normally protected and interfering contours over pertinent arcs, of all other proposals and existing stations, which require study to show the absence of objectionable interference.
- (e) Plot of the transmitter location of each station or proposal requiring investigation, with identifying call letters, file numbers and operating or proposed facilities.
- (f) When necessary to show more detail, an additional allocation study will be attached utilizing a map with a larger scale to clearly show interference or absence thereof.
- (g) A scale of kilometers and properly labeled longitude and latitude lines, shown across the entire Exhibit(s). Sufficient lines should be shown so that the location of the sites may be verified.
- (h) The name of the map(s) used in the Exhibit(s).

22. With regard to any stations separated by 53 or 54 channels (10.6 or 10.8 MHz) attach as an Exhibit information required in 1/ *(separation requirements involving intermediate frequency i.f. interference)*.

Exhibit No.  
\*

\* Nearest IF consideration is WMMO, which is 28.8 Km distant,  
23.(a) Is the proposed operation on Channel 218, 219, or 220? only 20 Km is required.

☐ Yes ☒ No

(b) If the answer to (a) is yes, does the proposed operation satisfy the requirements of 47 C.F.R. Section 73.207? N/A

☐ Yes ☐ No

(c) If the answer to (b) is yes, attach as an Exhibit information required in 1/ regarding separation requirements with respect to stations on Channels 221, 222 and 223.

Exhibit No.  
N/A

(d) If the answer to (b) is no, attach as an Exhibit a statement describing the short spacing(s) and how it or they arose.

Exhibit No.  
N/A

1/ A showing that the proposed operation meets the minimum distance separation requirements. Include existing stations, proposed stations, and cities which appear in the Table of Allotments; the location and geographic coordinates of each antenna, proposed antenna or reference point, as appropriate; and distance to each from proposed antenna location.

SECTION V-B - FM BROADCAST ENGINEERING DATA (Page 6)

- (e) If authorization pursuant to 47 C.F.R. Section 73.215 is requested, attach as an Exhibit a complete engineering study to establish the lack of prohibited overlap of contours involving affected stations. The engineering study must include the following:

Exhibit No.  
N/A

- (1) Protected and interfering contours, in all directions (360°), for the proposed operation.
- (2) Protected and interfering contours, over pertinent arcs, of all short-spaced assignments, applications and allotments, including a plot showing each transmitter location, with identifying call letters or file numbers, and indication of whether facility is operating or proposed. For vacant allotments, use the reference coordinates as transmitter location.
- (3) When necessary to show more detail, an additional allocation study utilizing a map with a larger scale to clearly show prohibited overlap will not occur.
- (4) A scale of kilometers and properly labeled longitude and latitude lines, shown across the entire exhibit(s). Sufficient lines should be shown so that the location of the sites may be verified.
- (5) The official title(s) of the map(s) used in the exhibits(s).

24. Is the proposed station for a channel in the range from Channel 201 to 220 (88.1 through 91.9 MHz) and the proposed antenna location within the distance to an affected TV Channel 6 station(s) as defined in 47 C.F.R. Section 73.525?

☒ Yes ☐ No

If Yes, attach as an Exhibit either a TV Channel 6 agreement letter dated and signed by both parties or a map and an engineering statement with calculations demonstrating compliance with 47 C.F.R. Section 73.525 for each affected TV Channel 6 station.

No Change  
Exhibit No.  
On File

See Exhibit A, Engineering Statement.

25. Is the proposed station for a channel in the range from Channel 221 to 300 (92.1-107.9 MHz)?

☐ Yes ☒ No

If Yes, attach as an Exhibit information required in 1/. (Except for Class D (secondary) proposals.)

Exhibit No.  
N/A

26. Environmental Statement (See 47 C.F.R. Section 1.1301 et seq.)

Would a Commission grant of this application come within Section 1.1307 of the FCC Rules, such that it may have a significant environmental impact?

☐ Yes ☒ No

If you answer Yes, submit as an Exhibit an Environmental Assessment required by Section 1.1311.

Exhibit No.  
N/A

If No, explain briefly why not. See Exhibit A, Engineering Statement.

CERTIFICATION

I certify that I have prepared this Section of this application on behalf of the applicant, and that after such preparation, I have examined the foregoing and found it to be accurate and true to the best of my knowledge and belief.


Name (Typed or Printed)	Relationship to Applicant (e.g., Consulting Engineer)
James S. Hoge	Applicant, President of CFEF
Signature	Address (Include ZIP Code)
	400 West Lake Brantley Road Altamonte Springs, FL 32714-2715
Date	Telephone No. (Include Area Code)
12 August 1992	(407) 682-9494

EXHIBIT A

ENGINEERING STATEMENT

Central Florida  
Educational Foundation, Inc.

The following material has been prepared by Central Florida Educational Foundation, Inc., (CFEF). CFEF presently has on file an application for a noncommercial, FM broadcast station at Union Park, Florida, (BPED-881207MA), to be diplexed with WCPX-TV Channel 6, Orlando, Florida.

The instant application seeks to increase effective radiated power from .95 Kw to 1.9 Kw into the diplexed antenna. No other change is requested. The change in ERP meets the maximum set forth in §73.525(d) for a co-located NCE FM with a channel 6. WCPX-TV in fact requests CFEF to raise power in an attached letter (Exhibit E-2). It was pointed out to CFEF that because of the diplexer's current design and with CFEF's present power, the isolation between the WCPX-TV signal and the diplexed FM signal would be marginal.

Dielectric Communications, the diplexer's designer, thought that an FM diplexer inserted in the output of the TV-6 visual transmitter, before the TV filterplexer, would provide superior isolation to the closely spaced WCPX-TV aural carrier. It wasn't until the TPO for the FM was recently calculated that a large power difference was noticed between the visual carrier of WCPX-TV and the proposed FM. This could cause the higher TV signal to "swamp" the lower FM signal in the diplexer and deteriorate it. Any increase in FM power would help provide a better balance in the diplexer and more acceptable operation.

Because of the superior protection offered to television viewers by diplexing an NCE FM channel with the affected channel 6, it is in the public interest to make diplexing work successfully. Please see the attached letters from Dielectric and WCPX-TV in Exhibit E-1 and E-2.

As noted in the previous application, the WCPX-TV antenna is slightly directional, providing protection to WCIX(TV) (Channel 6, Miami). The proposed FM pattern will then also be slightly directional, not necessarily because of the allocation situation, but simply because that is the nature of the antenna on which it will be diplexed.

## EXHIBIT A

### ENGINEERING STATEMENT

(CONTINUED)

#### ORGANIZATION OF THE INSTANT APPLICATION

Because CFEF proposes no change in site, no site map is included. Also the profile view of the antenna and tower, and relevant elevations did not change and are on file.

The polar plot of the proposed directional antenna pattern is in Exhibit B-1 for reference. CFEF proposes no change. The new ERP calculations and contours from the pattern is listed in Exhibit B-2.

Exhibit C shows the amended Service Contours, and the population and area served.

Exhibit D, The Minor Change Showing, compares the before and after 60 dbu contours and service areas, demonstrating that the "change area" is less than 50%.

Considerations of nearby RF services and the agreement with concerning WCPX-TV6 have not changed and are on file.

An allocation study is included as Exhibit F. F-1 is a complete Dataworld printout of every affected service. CFEF would note that two other mutually exclusive applicants, Bible Broadcasting Network (BBN), (BPED-890412MJ), and Southwest Florida Community Radio (SW), (BPED-891127MC) amended their applications to diplex on the WCPX-TV antenna, and both BBN and SW specified the exact facilities requested herein. Exhibits F-2 and F-3 is a clipping study that shows that there is no overlap between CFEF's proposed facility and Mims Community Radio, Inc.'s newly granted facility on Channel 204, Samsula, Florida. Exhibits F-4 and F-5 show that there is no overlap to WWIA, Channel 203A, Palm Bay, Florida, as indicated on the Dataworld printout.

EXHIBIT A

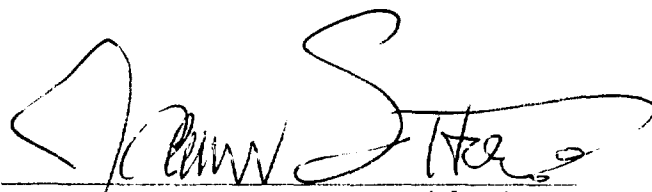
ENGINEERING STATEMENT

(CONTINUED)

CFEF incorporates herein the amendment to its application filed April 9, 1992, which stated that its application was not subject to environmental processing under section 1.1307 of the Commission's Rules. CFEF remains at the same site, and the the "Evaluation of Possible RF Exposure Resulting from Proposed CH202C3 at Union Park, Florida" calculated the "worst case" RF exposure based on a station ERP of 3 Kw, far more than the 1.9 Kw proposed herein. CFEF's application was determined not to be subject to environmental processing by the staff in the May 8, 1992 letter from W. Jan Gay, Assistant Chief of the Audio Services Division to the Presiding Officer. In a letter dated the same day, Mr. Gay informed the Presiding Officer of the staff's determination that the mutually exclusive applications of Bible Broadcasting Network, Inc. (BPED-890412MJ) and Southwest Florida Community Radio, Inc. (BPED-891127MC), proposing exactly the same proposal as specified herein were also not subject to environmental processing.

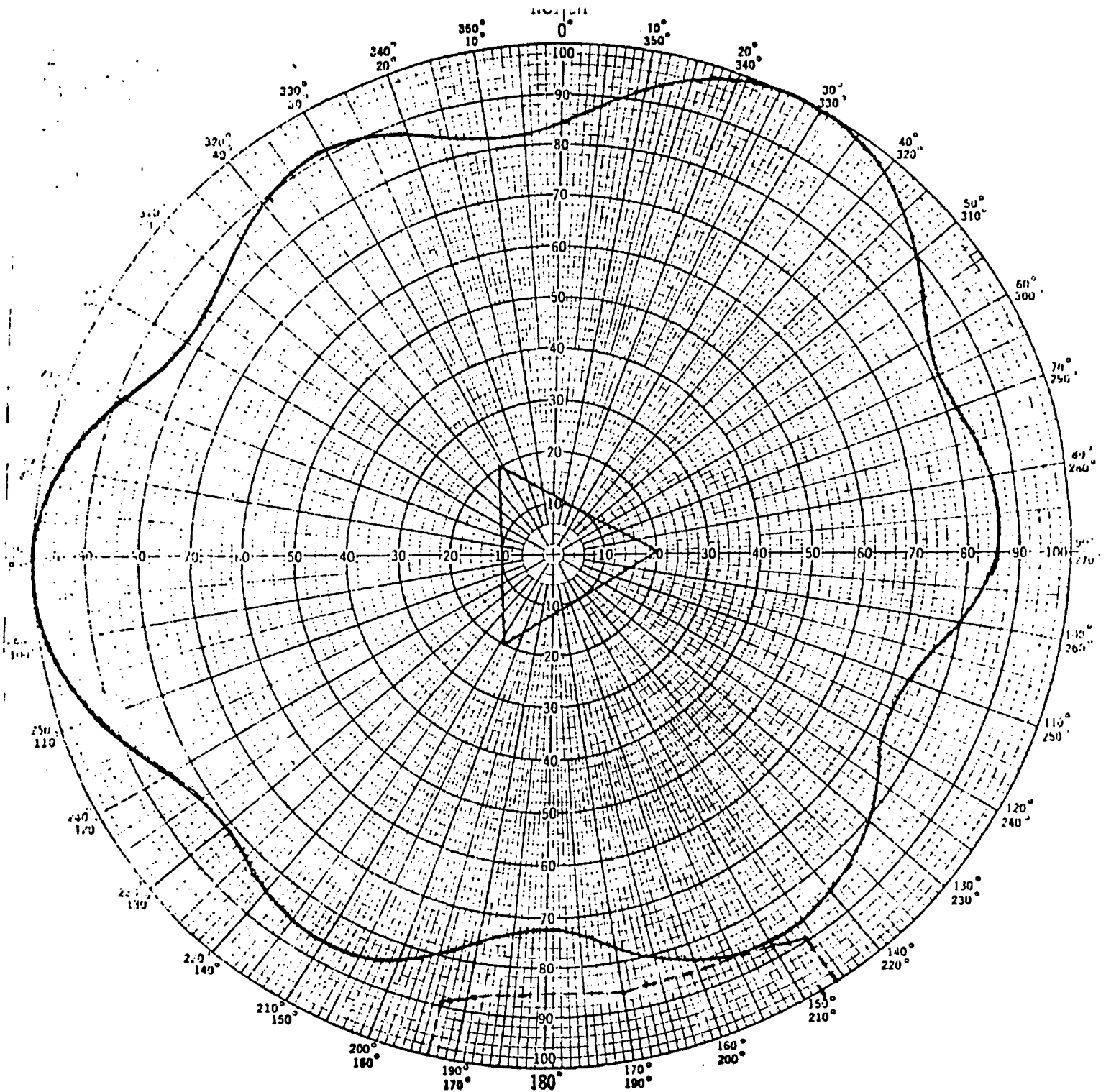
As referenced in Mr. Gay's letter, should CFEF's construction permit application be granted, it shall ensure that its agreement with the site owner will require all stations at the site to reduce power or cease operations as necessary to assure worker safety with respect to radiofrequency radiation when maintenance is performed at the site.

The attached work was prepared by James S. Hoge, or under my direction. I am the President of CFEF, (the applicant). I am a graduate of Bluefield State College and Marshall University and hold degrees in Electrical Engineering Technology and Business Administration respectively. This work is true, correct and meets all applicable rules to the best of my knowledge and belief.



James S. Hoge, President

August 14, 1992  
(407) 682-9494



# EXHIBIT B-1

POLAR PLOT OF DIRECTIONAL ANTENNA

CENTRAL FLORIDA  
EDUCATIONAL FOUNDATION INC.

Proposed Ch 202C2  
1.9 Kw @ 448 M HAAT  
Union Park, FL

August 1992

FIGURE 1  
RELATIVE FIELD PATTERN  
APPLICATION FOR CONSTRUCTION PERMIT  
TO MAKE MINOR CHANGE IN  
DIRECTIONAL RADIATION PATTERN

THE OUTLET COMPANY  
WDBO-TV 100 KW-DA, 1465 FT. CH. 6  
ORLANDO, FLORIDA

Prepared by  
Lohnes and Culver Washington, D. C.  
August, 1970

# EXHIBIT B-2

## AMMENDED TABULATIONS OF DIRECTIONAL ANTENNA FOR PROPOSED DIPLEXING OF EXISTING WCPX-TV6 RCA MODEL TBF-6AM "BUTTERFLY PANEL"

1.90 Kilowatts ERP @ 448m HAAT / 458m AMSL / Channel 202 / 88.3 Mhz

TABULATIONS				DISTANCE TO CONTOURS (Km)			
				50/50		50/10	
Bear(deg)	E Field	Kw	dbk	70 dbu	60 dbu	54 dbu	40 dbu
*000	0.840	1.341	1.273	24.1	40.5	61.9	106.0
010	0.920	1.608	2.063				
020	0.980	1.825	2.612				
030	1.000	1.900	2.788				
040	0.975	1.806	2.568				
*045	0.935	1.661	2.204	25.5	42.5	64.8	109.9
050	0.900	1.539	1.872				
060	0.825	1.293	1.117				
070	0.820	1.278	1.064				
080	0.855	1.389	1.427				
*090	0.855	1.389	1.427	24.4	41.0	62.7	107.0
100	0.800	1.216	0.849				
110	0.735	1.026	0.113				
120	0.735	1.026	0.113				
130	0.805	1.231	0.903				
*135	0.830	1.309	1.169	23.8	40.1	61.3	105.2
140	0.850	1.373	1.376				
150	0.865	1.422	1.528				
160	0.835	1.325	1.221				
170	0.770	1.127	0.517				
*180	0.720	0.985	-0.066	22.1	37.6	57.8	100.5
190	0.760	1.097	0.404				
200	0.835	1.325	1.221				
210	0.860	1.405	1.478				
220	0.845	1.357	1.325				
*225	0.825	1.293	1.117	23.6	39.8	60.9	104.6
230	0.820	1.278	1.064				
240	0.850	1.373	1.376				
250	0.935	1.661	2.204				
260	0.980	1.825	2.612				
*270	1.000	1.900	2.788	26.0	43.2	65.7	110.9
280	0.965	1.769	2.478				
290	0.885	1.488	1.726				
300	0.830	1.309	1.169				
310	0.845	1.357	1.325				
*315	0.870	1.438	1.578	24.4	41.0	62.6	106.9
320	0.890	1.505	1.775				
330	0.910	1.573	1.968				
340	0.870	1.438	1.578				
350	0.820	1.278	1.064				

Pattern presented in it's true geographic orientation.  
There is no "rotational offset".

**EXHIBIT C**

**SERVICE CONTOUR MAP**

(Amended)

**CENTRAL FLORIDA  
EDUCATIONAL FOUNDATION INC.**

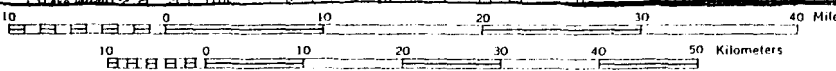
**Proposed Ch 202C2  
1.9 Kw @ 448 M HAAT  
Union Park, FL**

**August 1992**

**60 dbu Area: 5,213.7 Sq. Km**

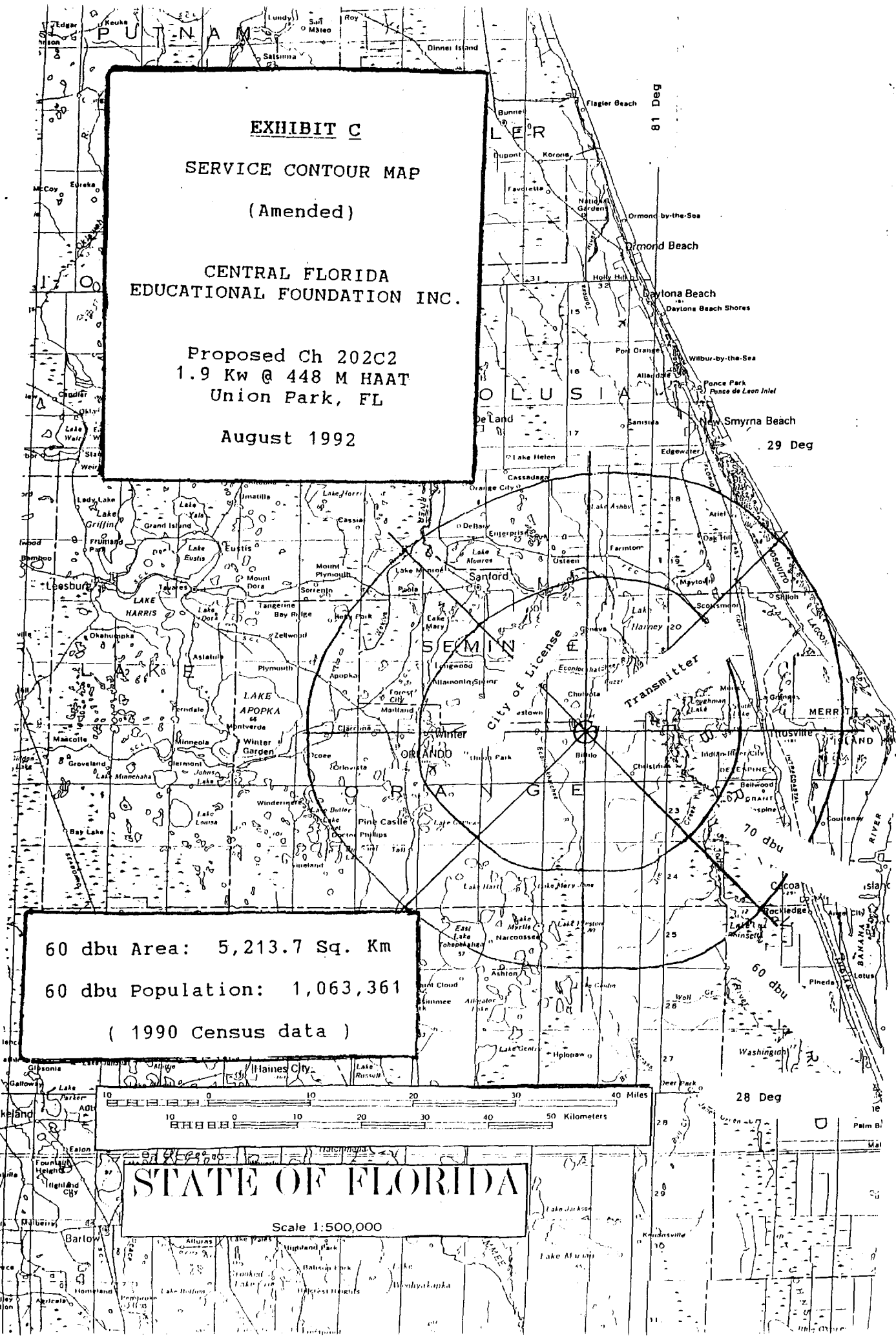
**60 dbu Population: 1,063,361**

**( 1990 Census data )**



**STATE OF FLORIDA**

**Scale 1:500,000**





# EXHIBIT D

MINOR CHANGE SHOWING

CENTRAL FLORIDA  
EDUCATIONAL FOUNDATION INC

Proposed Ch 202C2  
1.9 Kw @ 448 M HAAT  
Union Park, FL

August 1992

## 60 dbu Area:

As Presently filed: 3,864 Sq. Km

As Proposed herein: 5,214 Sq. Km

Percent Change: +34.9 %

